SPYWOLF

Security Audit Report

(TESTNET)

Completed on

November 25, 2023

OVERVIEW

This audit has been prepared for **Open Seed** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

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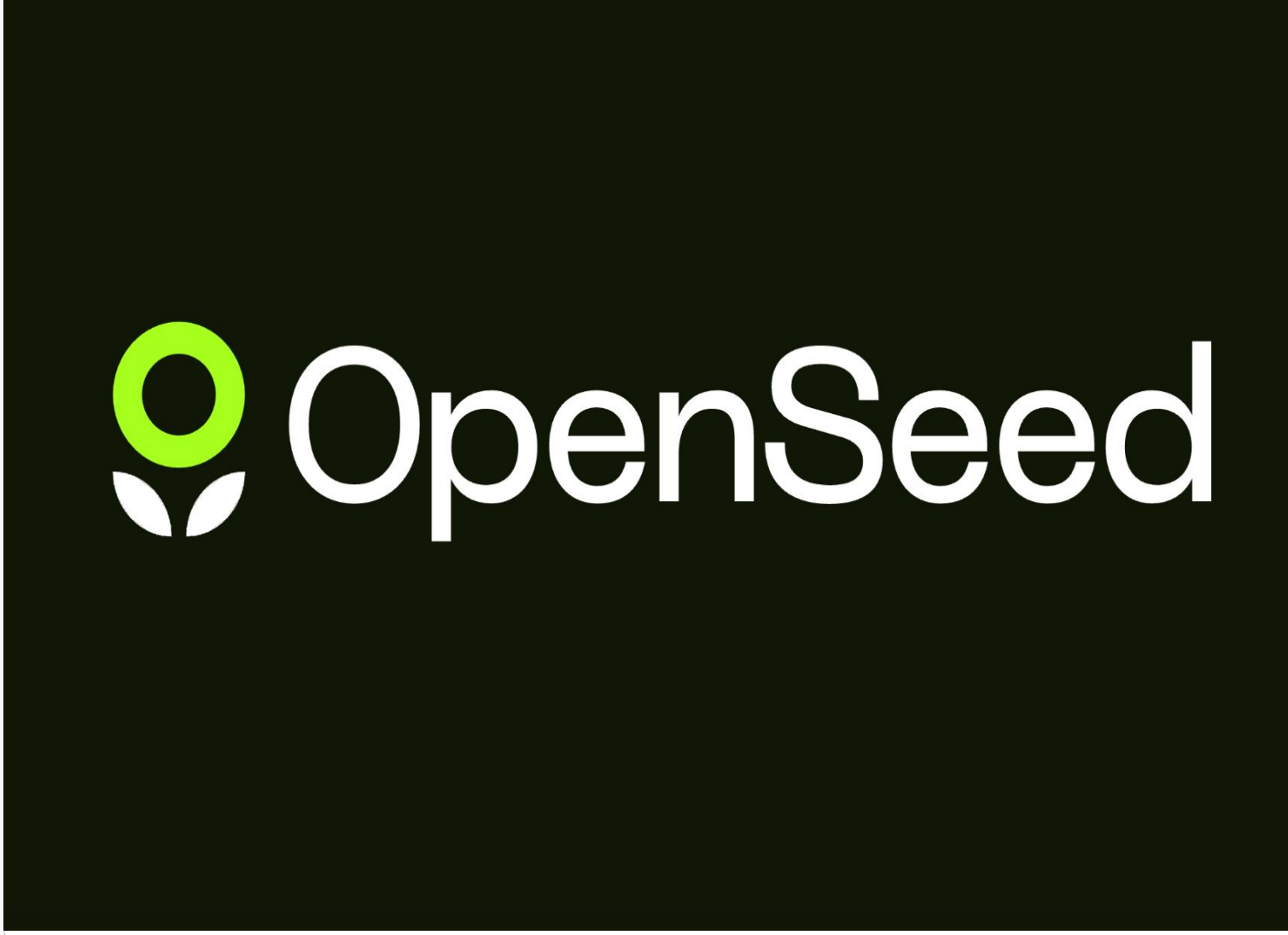
Open Seed



PROJECT DESCRIPTION

According to their whitepaper:

“Openseed.app is an innovative marketplace, where the community comes together to pool their funds and purchase blue-chips NFTs.
Our platform provides an opportunity for users to gain access to some of the most sought-after digital assets in the world, regardless of their individual financial resources.
By collectively investing in NFTs, our community members can enjoy the benefits of owning a piece of digital history and potentially reap significant returns.”

Release Date: Presale starts in November, 2023

Category: Marketplace

CONTRACT INFO

Token Name
Openseed

Symbol
OSEED

Contract Address
0xEE3727D83949c183aD1A0a207ed16fb5d020E0cd

Network
Ethereum goerli TESTNET

Language
Solidity

Deployment Date
Nov 25, 2023

Contract Type
Token

Total Supply
1,000,000,000

Status
Not launched

TAXES

Buy Tax
none

Sell Tax
none

*Taxes cannot be changed

Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

TOKEN TRANSFERS STATS

Transfer Count	TESTNET
Uniq Senders	TESTNET
Uniq Receivers	TESTNET
Total Amount	TESTNET
Median Transfer Amount	TESTNET
Average Transfer Amount	TESTNET
First transfer date	TESTNET
Last transfer date	TESTNET
Days token transferred	TESTNET

SMART CONTRACT STATS

Calls Count	TESTNET
External calls	TESTNET
Internal calls	TESTNET
Transactions count	TESTNET
Uniq Callers	TESTNET
Days contract called	TESTNET
Last transaction time	TESTNET
Created	TESTNET
Create TX	TESTNET
Creator	TESTNET

VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed

THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

FOUND THREATS

⚠ High Risk

Owner can set max sell transaction amount without limitations. When botPreventEnabled is true and max sell amount is set to 0, traders will be unable to sell their tokens.

```
function _transfer(address sender, address recipient, uint256 amount) internal override {
    if (botPreventionIsEnabled) {
        if (isPair[sender]) {
            require(amount <= maxBuyAmount, "Exceeds the maxBuy");

        } else if (isPair[recipient]) {
            require(amount <= maxSellAmount, "Exceeds the maxSell");
        }
    }

    super._transfer(sender, recipient, amount);
}

function setMaxBuy(uint256 newValue) external onlyOwner {
    maxBuyAmount = newValue;
}

function setMaxSell(uint256 newValue) external onlyOwner {
    maxSellAmount = newValue;
}

function setBotPrevention(bool newValue) public onlyOwner {
    botPreventionIsEnabled = newValue;
}
```

- Recommendation:
  - Considered as good practice is max transaction amount to be always equal or above 0.1% of total supply.

Informational

Owner can add/remove pair address.

```
function addPair(address addr, bool newValue) public onlyOwner {
    isPair[addr] = newValue;
}
```

- Recommendation:
    - Before the initial tokens distribution and initial liquidity add, ensure to set the liquidity pair as ‘isPair’ to prevent random liquidity adds from third parties.

RECOMMENDATIONS FOR

GOOD PRACTICES

1. Consider fundamental tradeoffs
2. Be attentive to blockchain properties
3. Ensure careful rollouts
4. Keep contracts simple
5. Stay up to date and track development

Open Seed

GOOD PRACTICES FOUND

- ✔ The owner cannot mint new tokens after deployment

SPYWOLF

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.
While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.